

## Assignment- 4

Assignment Date

30 October 2022

Student Name

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Student Roll Number

212219060150

Maximum Marks

2 Marks

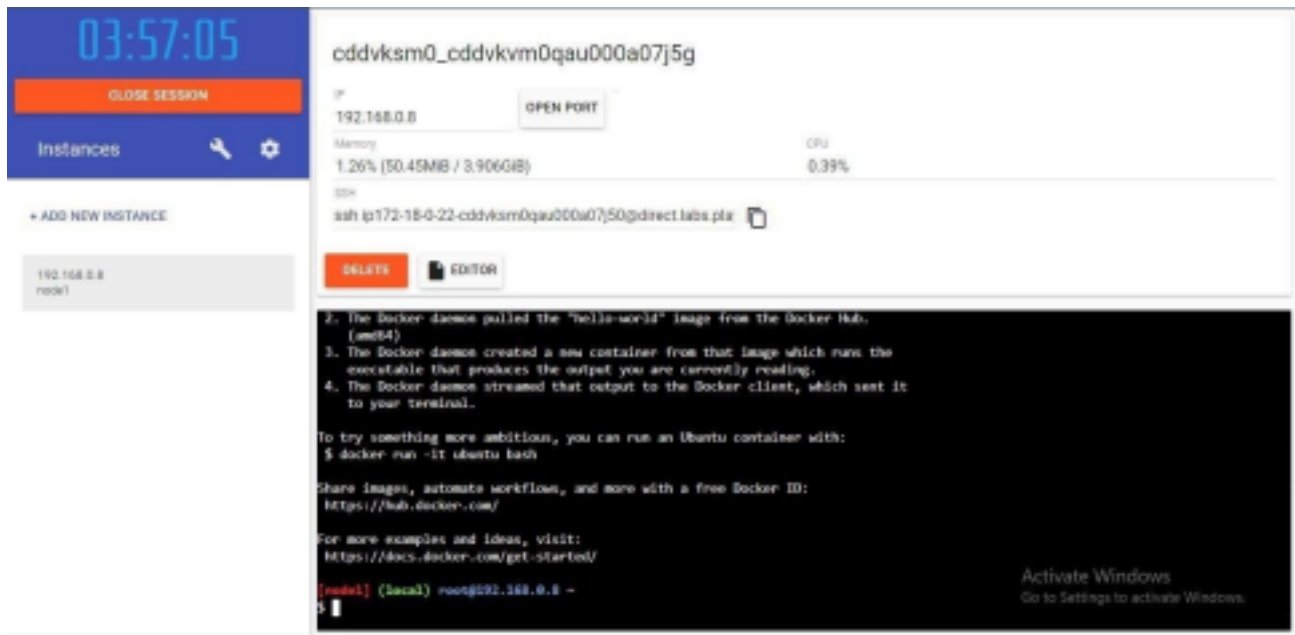
Question 1:

Pull an image from docker hub and run it in docker playground.

The screenshot displays the Docker Playground interface. On the left, there's a sidebar with a clock showing 03:57:32, a 'CLOSE SESSION' button, and an 'Instances' section with a search icon and a settings gear. Below this, there's a '+ ADD NEW INSTANCE' button and a list of instances showing '192.168.0.8' and 'root1'. The main area shows a container named 'cddvksm0\_cddvkvm0qau000a07j5g' with IP '192.168.0.8', memory usage '1.24% (49.52MB / 3.99GB)', and CPU usage '0.31%'. There are 'OPEN PORT', 'DELETE', and 'EDITOR' buttons. The terminal output shows the following commands and results:

```
# This is a sandbox environment. Using personal credentials
# is HIGHLY discouraged. Any consequences of doing so are
# completely the user's responsibilities.
# The PND team.
[root@localhost ~]# docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
24629730121e: Pull complete
Digest: sha256:c289a77aef4a607a671a6e3e405c1a577c95a1a64f32a60011d5e7
Status: Downloaded newer image for hello-world:latest
[root@localhost ~]# docker run hello-world
```

At the bottom right, there's a message: 'Activate Windows Go to Settings to activate Windows.'



Question 2:

Create a docker file for the job portal application and deploy it in Docker

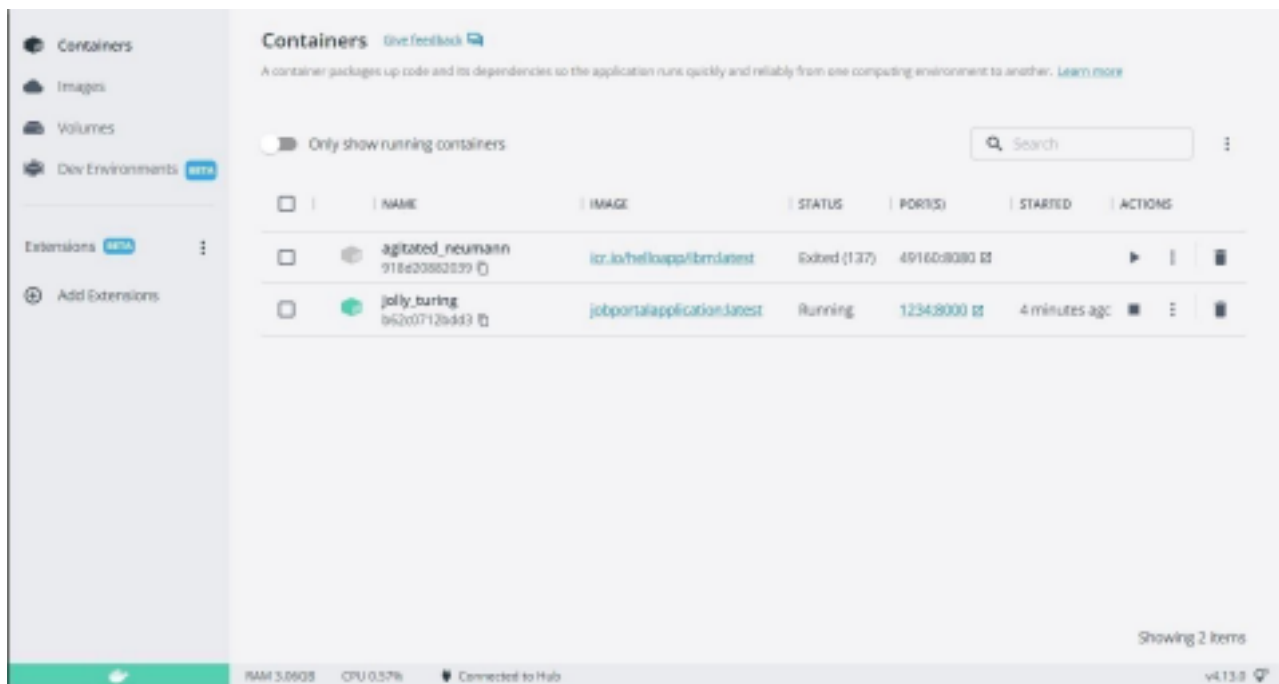
desktopapplication.DOCKER FILE:

```

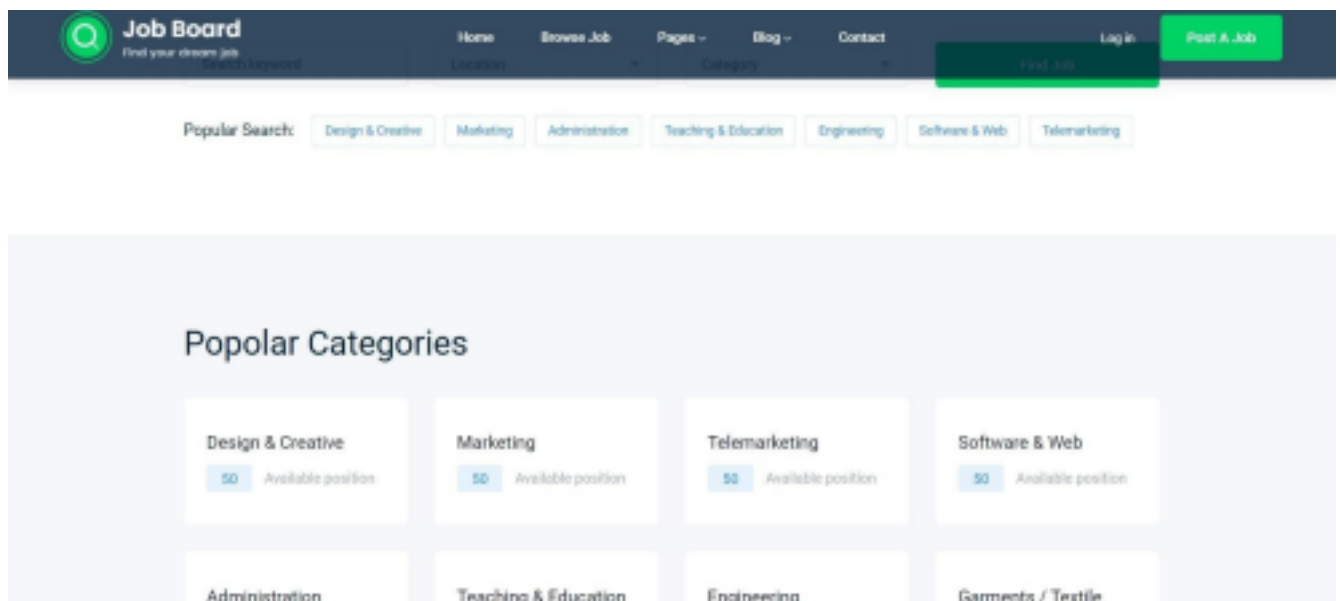
1 FROM python:3.8-buster
2
3 WORKDIR /app
4
5 COPY requirements.txt /app/
6
7 RUN pip install -r requirements.txt
8
9 COPY . /app/
10
11 RUN cp .env.dev.sample .env
12
13 EXPOSE 8000
14
15 RUN chmod +x entrypoint.sh
16
17 CMD ["sh", "entrypoint.sh"]

```

DEPLOYMENT OF JOBPOTAL APPLICATION:



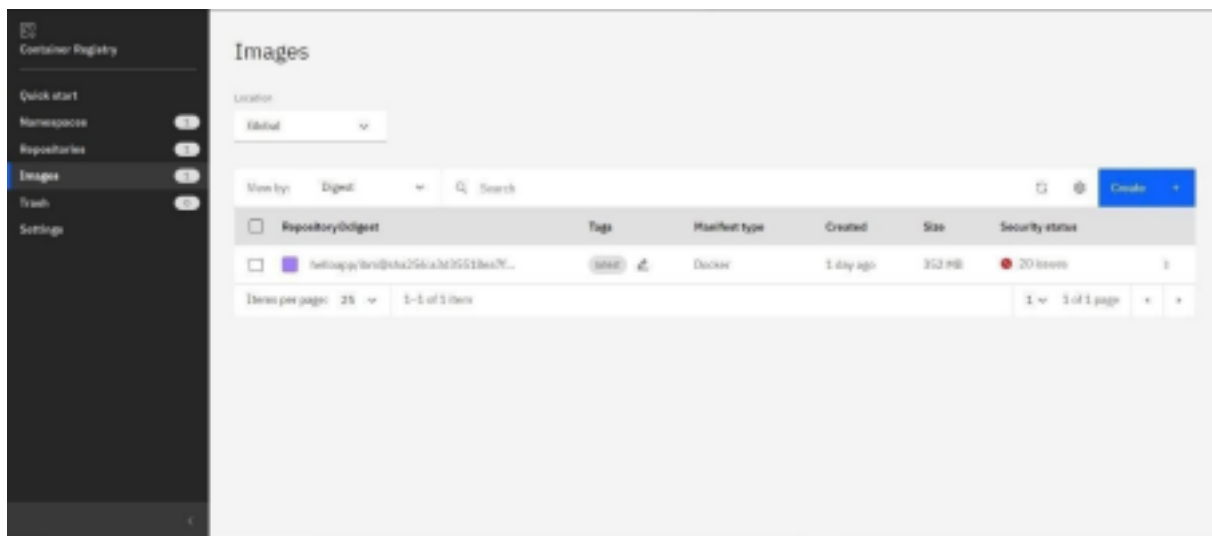
OUTPUT:



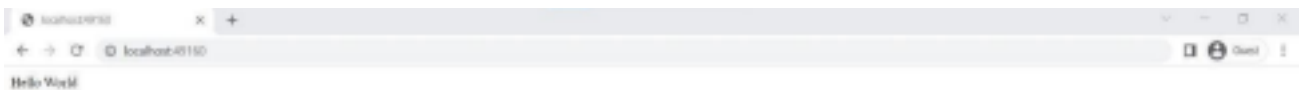
Question 3:

Create a IBM container registry and deploy hello-world app or job port app.IBM

CONTAINER REGISTRY DEPLOYMENT:



OUTPUT:



Question 4:

Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in node port.

Creating Kubernetes cluster in IBM cloud and exposing node port:

